FCC Form 352
May 1988

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

File No. : BZ-950223AA

AM BROADCAST STATION LICENSE

Call Sign : KDSJ

LICENSEE: Goldrush Broadcasting, Inc.

1. **Community of License. . .** : Deadwood, South Dakota

2. **Transmitter location. . . . .** : 2.5 mi. north of Deadwood on Boulder Canyon Rd., Deadwood, SD

North Latitude. . . . . : 44° 22' 57"
West Longitude . . . . . : 103° 39' 44"

3. **Transmitter(s): Type Accepted.** See Sections 73.1660, 73.1665 and 73.1670 of the Commission's rules)

4. **Main Studio Location:** *(See Section 73.1125)*

5. **Remote control location**
745 Main Street
Deadwood, SD

6. **Antenna and ground system:**
Attached

7. **Obstruction marking and lighting specifications - FCC Form 715, paragraphs:** 1, 3, 12 & 21.

8. **Frequency. . . . . :** 980 **kHz**

9. **Nominal power (kW). . . . . :** 5.0 **Day** 1.0 **Night**

Antenna input power (kW) :

5.0 **Day** ☒ **Non-directional antenna :** **current** 14.97 **amperes: resistance** 22.3 **ohms.**
☐ **Directional antenna :**

1.08 **Night** ☐ **Non-directional antenna :** **current** 4.65 **amperes: resistance** 50 **ohms.**
☒ **Directional antenna :**

10. **Hours of operation :** BL-800128AJ

11. **Conditions. . . . . :**

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,[1] the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 A.M. Local Time
April 1, 1997

The Commission reserves the right during said license period of terminating this license or making effective any change, or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period.
The license is issued on the licensee's representation that the statements contained in the licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience,or necessity to the full extent of the privileges herein conferred.
This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. This license is subject to the right f or control by the Government of the United States conferred by section 606 of the Communications Act of 1934, as amended.

EAL:rao

[1] This license consists of this page and pages 2 & 3

Dated: OCT 27 1995

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1. **DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM**

No. and Type of Elements: Two (2) triangular, uniform, cross section, series excited vertical steel radiators. Estimated radiation 289.68 mV/m/kW at 1 km, night. Augmented PTN RMS: 306.73 mV/m/kW at 1 km, night. Q = 10, night.

Height above Insulators: 60.06 m (71°)

Overall Height: 61.28 m

Spacing and Orientation: Spaced 164.63 m (194°) on a line bearing 165°T.

Non-Directional Antenna: S(#2) used with N(#1) tower floating. Theoretical efficiency: 294.51 mV/m at 1 km.

Ground System consists of 120 equally spaced buried copper radials 76.21 m long plus a 6.09 m square copper ground screen at the base of each tower. Radials between towers shortened and bonded to common screen strap.

2. **THEORETICAL SPECIFICATIONS**

Towers:	#2(N)	#1(S)
Phasing:	0°	30°
Field Ratio:	1.0	1.0

3. **OPERATING SPECIFICATIONS**

Phase Indication*:	-26°	0°
Antenna Base Current Ratio:	0.959	1.0
Antenna Monitor Sample Current Ratio:	0.96	1.0

* **As indicated by** Potomac Instruments AM-19 (204) Antenna Monitor.
Antenna sampling system approved under Section 73.68 (b) of the Rules.

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DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 125° True North. Leaving the transmitter site by the access road; turn left (west) on U.S. Highway 14 (Alt), and proceed 2.40 miles to the junction with U.S. Highway 85. Turn left (SW) on Highway 85 and proceed 0.96 miles to the junction with U.S. Highway 385. Turn left (south) on Highway 385 and proceed 6.18 miles to a side road on the left side of the highway. (This side road is approximately 0.75 miles past the Strawberry Hill Campground). Turn left (east) on the side road and proceed 3.95 miles to the town of Galena. Proceed on the same road through Galena for 3.25 miles to monitor point number 1. The monitor point is on the south side of the road, approximately 0.65 miles past Park Creek Road. A steel pipe is driven into the ground on the side of the road to identify the location. Distance from the transmitter is 5.3 miles. The field intensity measured at this point should not exceed 1.9 mV/m.

Direction of 232° True North. Leaving the transmitter site by the access road, turn left (west) on U.S. Highway 14 and proceed 3.86 km (2.40 miles) to the junction with U.S. Highway 85. Turn left (southwest) on Highway 85 and proceed 1.54 km (0.96 miles) to the junction with U.S. Highway 385. Turn left (south) on Highway 385 and proceed 2.90 km (1.8 miles) to the New Monitor Point. Monitor Point #2 is located on the west side of the highway on the northeast corner of the access road bridge. The distance from antenna is 4.17 miles. The field intensity measured at this point should not exceed 7.1 mV/m, night.

Direction of 354.5° True North. From the transmitter building proceed to north (left) and at junction with transmitter road and highway start measuring distance. Proceed left (west) on Highway No. 14 toward Deadwood City; at 2.4 miles (junction of Highway No. 14 and No. 85 turn sharp right - double back almost northeast on Highway No. 85 toward Spearfish to a point just past the Cole Construction Company's gravel pit on right side of highway - at 5.3 miles turn right (east) on gravel road and proceed east 1.5 miles (total 6.8 miles) to "T" in road - turn right (south) and proceed about 0.5 mile past slight turn left in road "T" in road and turn left (east). From here proceed 0.5 mile east past old rock school house. Monitoring post is on the left side of roadway. Reading is taken 100 feet to north of road in field. The distance from the transmitter is 3.40 miles. The field intensity measured at this point should not exceed 8.2 mv/m, night.